

WEST Search History

DATE: Saturday, August 17, 2002

Set Name Query
side by side

Hit Count Set Name
result set

DB=USPT,PGPB; PLUR=YES; OP=ADJ

L15	114 and 112	2	L15
L14	12 and 18 and 19	1415	L14
L13	110 and 112	1	L13
L12	15 and 16 and 19	383	L12
L11	15 and 15 and 19	4056	L11
L10	18 and 12 and 14	532	L10
L9	fibers or fibres	346002	L9
L8	elastic same (sheet or web)	21922	L8
L7	stretchable same composite same sheet	139	L7
L6	ethylene propylene butene	5006	L6
L5	ethylene propylene copolymer	10401	L5
L4	elastomer	80338	L4
L3	olefin or styrene or ester or urethane	405751	L3
L2	fibrous same (assembly or sheet or web)	20253	L2
L1	elastic same sheet	17397	L1

END OF SEARCH HISTORY



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L1: Entry 1 of 1

File: DWPI

Aug 9, 1990

DERWENT-ACC-NO: 1990-286192
DERWENT-WEEK: 199038
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TITLE: Stretch nonwoven fabric for sports:wear etc. - based on two fibres developing crimp at different temps.

PRIORITY-DATA: 1989JP-0014666 (January 23, 1989)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 02200859 A</u>	August 9, 1990		000	

INT-CL (IPC): A61F 13/00; A61K 9/70; D01F 8/06; D04H 3/14

ABSTRACTED-PUB-NO: JP 02200859A

BASIC-ABSTRACT:

A stretch nonwoven fabric comprises uniting by fusion between constituting fibres comprising 5-40 wt.% of A and 60-95 wt.% of B fibres. Fibre A comprises low m.pt. resin component having m.pt. (Tm deg.C) shown by Tm is 100-150 and high m.pt. resin component having m.pt. shown by Tm is 150-300. Fibre A is latent crimping heat fusing composite fibre developing crimp at m.pt. of low m.pt. resin component. Fibre B is latent crimping fibre developing crimp at heat treating temp. (T deg.C) shown by T = 120-180.

The low m.pt. resin component is pref. polyethylene, ethylene-propylene-butene-1 terpolymer and ethylene-propylene copolymer. The high m.pt. resin component is pref. polybutylene terephthalate and polypropylene. The stretch nonwoven fabric contains less thanm 15% of cellulose fibre such as viscose rayon for imparting hygroscopic property.

USE/ADVANTAGE - The stretch nonwoven fabric is useful for sportswear, interlining cloth, wadding of outer garment, glove, cushion and mat, bandage, gauze and sanitary items.



Generate Collection

L2: Entry 1 of 1

File: DWPI

Jun 15, 1999

DERWENT-ACC-NO: 1999-400626

DERWENT-WEEK: 199937

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TITLE: Non-woven fabric laminate body for disposable diaper and moist cloth materials - has horizontally expandable spun bond non-woven fabrics of propylene and ethylene group polymers having predetermined property with composite fibers at specified weight ratio

PRIORITY-DATA: 1997JP-0324247 (November 26, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 11158766 A</u>	June 15, 1999		008	D04H013/00

INT-CL (IPC): B32 B 5/26; D04 H 3/00; D04 H 3/14; D04 H 3/16; D04 H 13/00

ABSTRACTED-PUB-NO: JP 11158766A

BASIC-ABSTRACT:

NOVELTY - The laminate body has at least one layer each of a horizontally expandable spun bond non-woven fabrics which draws by 1.2-3.0 times under heat and an elastic melt blown non-woven fabric layer in vertical direction. The spun bond fabrics contain propylene and ethylene group polymers of Mw/Mn which is in the range of 2-4 and 1.5-4 with composite fibers at 5:95-30:70 by weight ratio.

USE - For rubber strings and elastic members in base fabrics of disposable diaper and moist cloth materials including sanitation materials, disposable pocket body warmers, stretch tape, gloves, supporters and clothing goods.

ADVANTAGE - A laminated body having an excellent air permeability and flexibility with large tensile strength can be cheaply manufactured with excellent process ability by virtue of elasticity horizontally and small expansion vertically.

DESCRIPTION OF DRAWING(S) - The drawing shows the model cross sections of a core sheath type composite fiber.

[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 3 of 3 returned.**☒ 1. Document ID: US 5883028 A

L6: Entry 1 of 3

File: USPT

Mar 16, 1999

US-PAT-NO: 5883028

DOCUMENT-IDENTIFIER: US 5883028 A

TITLE: Breathable elastic film/nonwoven laminate

DATE-ISSUED: March 16, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Morman; Michael Tod	Alpharetta	GA		
Morgan; Linda Jeanette	Dunwoody	GA		
Cohen; Bernard	Berkeley Lake	GA		

US-CL-CURRENT: 442/394; 156/229, 428/198, 428/448, 428/910, 442/382, 442/399,
442/400, 442/401

ABSTRACT:

A breathable elastic laminate is formed by bonding a film including an elastic water vapor-soluble polymer to a neckable nonwoven web such that when the film is relaxed, the web is in a necked state. The breathable laminate is stretchable in a direction parallel to the narrowing or necking of the web. The laminate possesses excellent water vapor permeability but acts as a barrier to the passage of odor-causing chemicals including ammonia.

45 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw Desc	Image
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☒ 2. Document ID: US 5540976 A

L6: Entry 2 of 3

File: USPT

Jul 30, 1996

US-PAT-NO: 5540976

DOCUMENT-IDENTIFIER: US 5540976 A

TITLE: Nonwoven laminate with cross directional stretch

DATE-ISSUED: July 30, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shawver; Susan E.	Roswell	GA		
Collier, IV; Leslie W.	Roswell	GA		
Estey; Paul W.	Cumming	GA		

US-CL-CURRENT: 428/198; 428/373, 428/374, 428/903, 442/353, 442/361, 442/364,
442/373, 442/384, 604/358, 604/367, 604/369

ABSTRACT:

There is provided a nonwoven fabric laminate having cross-directional stretch properties. The laminate is comprised of at least three layers. The outer layers are spunbond nonwoven fiber webs which are made of crimped or crimpable fibers. The inner layer is an elastomeric polymer layer which may itself be composed of one or more thinner layers. The layers are preferably produced by sequentially depositing them onto a moving forming wire and bonding them together by a method excluding hydroentanglement to form the laminate.

19 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full	Title	Citation	Print	Review	Classification	Date	Reference	Sequences	Attachments
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ROMD	Draw Desc	Image
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☒ 3. Document ID: US 4720415 A

L6: Entry 3 of 3

File: USPT

Jan 19, 1988

US-PAT-NO: 4720415

DOCUMENT-IDENTIFIER: US 4720415 A

TITLE: Composite elastomeric material and process for making the same

DATE-ISSUED: January 19, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vander Wielen; Michael J.	Roswell	GA		
Taylor; Jack D.	Roswell	GA		

US-CL-CURRENT: 428/152; 156/163, 156/164, 156/183, 156/290, 428/198, 428/903

ABSTRACT:

A method of producing a composite elastic material comprises stretching an elastic web to elongate it, for example, elongating a nonwoven web of meltblown elastomeric fibers, and bonding the elongated web to at least one gatherable web, such as a spunbonded polyester fiber material, under conditions which soften at least a portion of the elastic web to form the bonded composite web of elastic material. The composite material is relaxed immediately after the bonding to prevent the elastic web from losing its ability to contract from the stretched dimensions which it assumed during the bonding step. Such immediate relaxation of the composite material after the bonding step results in the elastic web retaining its ability to contract so that, upon termination of the elongating force, the elastic web contracts to form gathers in the gatherable web. The bonding may be effectuated by pattern embossing overlaid elastic and gatherable webs with at least portions of the elastic web heated to at least its softening temperature. The resultant composite elastic

material comprises a coherent elastic web which is bonded to at least one coherent gatherable web whereby the gatherable web is extensible and contractible with the elastic web upon stretching and relaxing of the composite material.

44 Claims, 3 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FIG. 1	Draw. Desc.	Image
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Generate Collection

Print

Term	Documents
(4 AND 5).USPT,PGPB.	3
(L4 AND L5).USPT,PGPB.	3

Display Format:

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Previous Page

Next Page

[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 1 of 1 returned.**☐ 1. Document ID: JP 02200859 A

L1: Entry 1 of 1

File: DWPI

Aug 9, 1990

DERWENT-ACC-NO: 1990-286192

DERWENT-WEEK: 199038

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TITLE: Stretch nonwoven fabric for sports:wear etc. - based on two fibres developing crimp at different temps.

PRIORITY-DATA: 1989JP-0014666 (January 23, 1989)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 02200859 A</u>	August 9, 1990		000	

INT-CL (IPC): A61F 13/00; A61K 9/70; D01F 8/06; D04H 3/14

ABSTRACTED-PUB-NO: JP 02200859A

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Full	Title	CL	LS	1	SEQ	1	ATT	1
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Term	Documents
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JP-02200859-\$.DID..DWPI.	1
(JP-02200859-\$.DID.).DWPI.	1

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Previous Page

Next Page

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L2: Entry 1 of 1

File: DWPI

Jun 15, 1999

DERWENT-ACC-NO: 1999-400626

DERWENT-WEEK: 199937

COPYRIGHT 2003 DERWENT INFORMATION LTD

TITLE: Non-woven fabric laminate body for disposable diaper and moist cloth materials - has horizontally expandable spun bond non-woven fabrics of propylene and ethylene group polymers having predetermined property with composite fibers at specified weight ratio

PRIORITY-DATA: 1997JP-0324247 (November 26, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 11158766 A</u>	June 15, 1999		008	D04H013/00

INT-CL (IPC): B32 B 5/26; D04 H 3/00; D04 H 3/14; D04 H 3/16; D04 H 13/00

ABSTRACTED-PUB-NO: JP 11158766A

BASIC-ABSTRACT:

NOVELTY - The laminate body has at least one layer each of a horizontally expandable spun bond non-woven fabrics which draws by 1.2-3.0 times under heat and an elastic melt blown non-woven fabric layer in vertical direction. The spun bond fabrics contain propylene and ethylene group polymers of Mw/Mn which is in the range of 2-4 and 1.5-4 with composite fibers at 5:95-30:70 by weight ratio.

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw Desc	Clip Img	Image
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Term	Documents
JP-11158766-\$	0
JP-11158766-A.DWPI.	1
JP-11158766-\$.DID..DWPI.	1
(JP-11158766-\$.DID.).DWPI.	1

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REV

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Previous Page

Next Page

[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 3 of 3 returned.**☐ 1. Document ID: US 6272687 B1

L1: Entry 1 of 3

File: USPT

US-PAT-NO: 6272687

DOCUMENT-IDENTIFIER: US 6272687 B1

TITLE: Puncture proof surgical gloves

DATE-ISSUED: August 14, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cunningham; Frank W.	Rancho Palos Verdes	CA	90275	

US-CL-CURRENT: 2/161.7; 2/16, 2/169, 428/911

ABSTRACT:

A puncture proof surgical glove and methods for producing the puncture proof glove are provided. The puncture proof glove provides flexibility and elasticity and protects against dangerous puncture wounds from needles and scalpels. The puncture proof surgical glove includes a first glove and second glove that each include a first pattern cut from a first material in a shape, a first layered stack of a plurality of patterned sheets, each of the plurality of patterned sheets cut from a second material in the first shape and having multiple line cuts through the second material, a second pattern cut from the first material in the first shape, and a third pattern cut in the first shape. The first pattern is layered on top of the first layered stack and the second pattern is layered on the bottom of the first layered stack and the first pattern and second pattern are bonded along their edges. The third pattern is then bonded to the edge of the bonded first and second patterns along an edge of the third pattern except for a portion of the edge to provide for an opening. The second glove is placed over the first glove so that the third pattern of the second glove is layered on top of the first pattern, and the bonded edge of the second glove overlaps the bonded edge of the first glove. Then the third pattern of the second glove is bonded to the first pattern of the first glove.

24 Claims, 35 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 17

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWAC	Draw Desc	Image
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☐ 2. Document ID: US 6266818 B1

L1: Entry 2 of 3

File: USPT

US-PAT-NO: 6266818

DOCUMENT-IDENTIFIER: US 6266818 B1

TITLE: Penetration resistant garment

DATE-ISSUED: July 31, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Howland; Charles A.	Weston	MA		
Howland; Virginia	Weston	MA		
Schroeder; Narain	Nashua	NH		

US-CL-CURRENT: 2/2.5; 428/911, 442/189

ABSTRACT:

A penetration resistant garment that may be comfortably worn by a user while offering protection against injury from a penetrating object, such as a water jet for example, includes a plurality of light-weight, rigid, discrete penetration resistant sections (30) cooperating with and arranged relative to one another to provide a flexible garment (20). The sections (30) may be layered in an overlapping manner to provide substantially complete coverage extending over an area of desired coverage. Also, a length of the garment may be less than a sum of the lengths of the individual sections (30).

97 Claims, 16 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 13

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)

[KIMC](#) [Draw Desc](#) [Image](#)

☐ 3. Document ID: US 5976996 A

L1: Entry 3 of 3

File: USPT

US-PAT-NO: 5976996

DOCUMENT-IDENTIFIER: US 5976996 A

TITLE: Protective fabric having high penetration resistance

DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Howland; Charles A.	Weston	MA		

US-CL-CURRENT: 442/189; 139/383R, 2/2.5, 428/902, 428/911

ABSTRACT:

A protective fabric of high penetration resistance is formed from a plurality of layered, densely woven base fabrics, each formed by tightly weaving multifilament yarns to obtain a warp yarn "density" or "cover" in excess of 100% at the center of the fill yarn, and a fill yarn density or cover preferably also in excess of 75%. The yarns themselves preferably comprise a high modulus, high breaking strength yarn of materials such as Kevlar, Spectra, or Vectran. The resultant layered fabric offers especially high penetration resistance to weapons such as ice picks and the like. Additional resistance to penetration by sharp knives is provided by interruptedly

coating the base fabric with an epoxy in such a manner as to inhibit penetration while providing drapability and breathability.

5 Claims, 12 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWIC Draw Desc Image

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Term	Documents
"5976996".USPT.	3
5976996S	0
"5976996".USPT.	3
(5976996).USPT.	3

Display Format:

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Change Format

Previous Page

Next Page

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Search Results -

Term	Documents
(7 AND 14).USPT,PGPB.	46
(L7 AND L14).USPT,PGPB.	46

Database:

US Patents Full-Text Database
US Pre-Grant Publication Full-Text Database
JPO Abstracts Database
EPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L16

[Refine Search](#)[Recall Text](#)[Clear](#)

Search History

DATE: **Saturday, August 17, 2002** [Printable Copy](#) [Create Case](#)

Set Name Query
side by side

Hit Count Set Name
result set

DB=USPT,PGPB; PLUR=YES; OP=ADJ

<u>L16</u>	17 and 114	46	<u>L16</u>
<u>L15</u>	114 and 112	2	<u>L15</u>
<u>L14</u>	12 and 18 and 19	1415	<u>L14</u>
<u>L13</u>	110 and 112	1	<u>L13</u>
<u>L12</u>	15 and 16 and 19	383	<u>L12</u>
<u>L11</u>	15 and 15 and 19	4056	<u>L11</u>
<u>L10</u>	18 and 12 and 14	532	<u>L10</u>
<u>L9</u>	fibers or fibres	346002	<u>L9</u>
<u>L8</u>	elastic same (sheet or web)	21922	<u>L8</u>
<u>L7</u>	stretchable same composite same sheet	139	<u>L7</u>
<u>L6</u>	ethylene propylene butene	5006	<u>L6</u>
<u>L5</u>	ethylene propylene copolymer	10401	<u>L5</u>
<u>L4</u>	elastomer	80338	<u>L4</u>
<u>L3</u>	olefin or styrene or ester or urethane	405751	<u>L3</u>
<u>L2</u>	fibrous same (assembly or sheet or web)	20253	<u>L2</u>
<u>L1</u>	elastic same sheet	17397	<u>L1</u>

END OF SEARCH HISTORY

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=> file caplus
COST IN U.S. DOLLARS                SINCE FILE      TOTAL
                                     ENTRY      SESSION
FULL ESTIMATED COST                0.21        0.21
```

FILE 'CAPLUS' ENTERED AT 13:24:57 ON 17 AUG 2002
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FILE COVERS 1907 - 17 Aug 2002 VOL 137 ISS 8
 FILE LAST UPDATED: 16 Aug 2002 (20020816/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

```
=> s stretchable(l)composite (l) (sheet or web)
    1679 STRETCHABLE
    226892 COMPOSITE
    137137 COMPOSITES
    258666 COMPOSITE
        (COMPOSITE OR COMPOSITES)
    222511 SHEET
    139918 SHEETS
    292121 SHEET
        (SHEET OR SHEETS)
    20076 WEB
    5627 WEBS
    22558 WEB
        (WEB OR WEBS)
L1      33 STRETCHABLE(L)COMPOSITE (L) (SHEET OR WEB)
```

```
=> s fibrous assembly
    45061 FIBROUS
    98449 ASSEMBLY
    24646 ASSEMBLIES
    114076 ASSEMBLY
        (ASSEMBLY OR ASSEMBLIES)
L2      70 FIBROUS ASSEMBLY
        (FIBROUS(W)ASSEMBLY)
```

```
=> s fibrous (l) assembly (l)sheet
    45061 FIBROUS
    98449 ASSEMBLY
    24646 ASSEMBLIES
    114076 ASSEMBLY
        (ASSEMBLY OR ASSEMBLIES)
    222511 SHEET
    139918 SHEETS
```



```

292121 SHEET
      (SHEET OR SHEETS)
L3      103 FIBROUS (L) ASSEMBLY (L) SHEET

=> s (fibers or fibres) (l) ethylene propylene copolymer
      442481 FIBERS
        1374 FIBRES
      397958 ETHYLENE
        3154 ETHYLENES
      399627 ETHYLENE
        (ETHYLENE OR ETHYLENES)
      144349 PROPYLENE
        287 PROPYLENES
      144439 PROPYLENE
        (PROPYLENE OR PROPYLENES)
      473081 COPOLYMER
      160320 COPOLYMERS
      515325 COPOLYMER
        (COPOLYMER OR COPOLYMERS)
      15175 ETHYLENE PROPYLENE COPOLYMER
        (ETHYLENE(W) PROPYLENE(W) COPOLYMER)
L4      558 (FIBERS OR FIBRES) (L) ETHYLENE PROPYLENE COPOLYMER

=> s ethylene propylene butene
      397958 ETHYLENE
        3154 ETHYLENES
      399627 ETHYLENE
        (ETHYLENE OR ETHYLENES)
      144349 PROPYLENE
        287 PROPYLENES
      144439 PROPYLENE
        (PROPYLENE OR PROPYLENES)
      46412 BUTENE
        5494 BUTENES
      48201 BUTENE
        (BUTENE OR BUTENES)
L5      141 ETHYLENE PROPYLENE BUTENE
        (ETHYLENE(W) PROPYLENE(W) BUTENE)

=> d his

      (FILE 'HOME' ENTERED AT 13:24:20 ON 17 AUG 2002)

      FILE 'CAPLUS' ENTERED AT 13:24:57 ON 17 AUG 2002
L1      33 S STRETCHABLE(L) COMPOSITE (L) (SHEET OR WEB)
L2      70 S FIBROUS ASSEMBLY
L3      103 S FIBROUS (L) ASSEMBLY (L) SHEET
L4      558 S (FIBERS OR FIBRES) (L) ETHYLENE PROPYLENE COPOLYMER
L5      141 S ETHYLENE PROPYLENE BUTENE

=> s sheet (l) inelastic (l) binding (l) spots
      222511 SHEET
      139918 SHEETS
      292121 SHEET
        (SHEET OR SHEETS)
      55735 INELASTIC
        13 INELASTICS
      55735 INELASTIC
        (INELASTIC OR INELASTICS)
      727076 BINDING
        1639 BINDINGS
      727528 BINDING
        (BINDING OR BINDINGS)
      40891 SPOTS
L6      0 SHEET (L) INELASTIC (L) BINDING (L) SPOTS

```

```
=> s inelastic sheet
      55735 INELASTIC
        13 INELASTICS
      55735 INELASTIC
          (INELASTIC OR INELASTICS)
      222511 SHEET
      139918 SHEETS
      292121 SHEET
          (SHEET OR SHEETS)
L7      1 INELASTIC SHEET
          (INELASTIC(W)SHEET)
```

```
=> s inelastic (l)sheet
      55735 INELASTIC
        13 INELASTICS
      55735 INELASTIC
          (INELASTIC OR INELASTICS)
      222511 SHEET
      139918 SHEETS
      292121 SHEET
          (SHEET OR SHEETS)
L8      152 INELASTIC (L)SHEET
```

```
=> d his
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(FILE 'HOME' ENTERED AT 13:24:20 ON 17 AUG 2002)

FILE 'CAPLUS' ENTERED AT 13:24:57 ON 17 AUG 2002

```
L1      33 S STRETCHABLE(L)COMPOSITE (L) (SHEET OR WEB)
L2      70 S FIBROUS ASSEMBLY
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L4      558 S (FIBERS OR FIBRES) (L) ETHYLENE PROPYLENE COPOLYMER
L5      141 S ETHYLENE PROPYLENE BUTENE
L6      0 S SHEET (L) INELASTIC (L) BINDING (L)SPOTS
L7      1 S INELASTIC SHEET
L8      152 S INELASTIC (L)SHEET
```

```
=> s l1 and l3 and l4
L9      1 L1 AND L3 AND L4
```

```
=> d bib,abs
```

```
L9      ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
AN      2001:546070 CAPLUS
DN      135:108599
TI      Elastically stretchable composite sheets
        with high stretchability comprising laminates of a thermoplastic
        stretchable elastic sheet and a nonwoven sheet
        comprising fibers consisting of propylene polymers having inelastic
        stretchability and intermittently joined to one or two surfaces of the
        elastic sheet
IN      Kobayashi, Toshio; Ohata, Hiroyuki
PA      Japan
SO      U.S. Pat. Appl. Publ., 9 pp.
        CODEN: USXXCO
DT      Patent
LA      English
FAN.CNT 1
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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2001009715	A1	20010726	US 2001-766275	20010119
	JP 2001200460	A2	20010727	JP 2000-11994	20000120
	BR 2001000345	A	20011009	BR 2001-345	20010119
	CN 1307857	A	20010815	CN 2001-112332	20010120

PRAI JP 2000-11994 A 20000121

AB The **stretchable sheets** comprise laminates of an elastic **sheet** (A) having stretchability essentially in one or two directions orthogonal to each other and showing stretch in one direction .gtoreq.80%, and a **sheet-like fibrous assembly** (B) having an inelastic stretchability in one of the two directions and joined to .gtoreq.1 surface of A **sheet** at bonding sections arranged intermittently in the two directions and comprising component **fibers** each consisting of **ethylene-propylene copolymer** (I) contg. 0.5-10% ethylene units, butene-**ethylene-propylene copolymer** (II) contg. 0.5-10% ethylene units and 0.5-15% butene units, or a mixt. comprising 100-10% two polymers from I and II. The **composite sheets** are prepd. by the steps comprising the steps of (a) continuously feeding together A **web** comprising thermoplastic polymers and B **web** exhibiting breaking extension .gtoreq.150% in one direction and placing A **web** upon B **web**, (b) joining A **web** and B **web** intermittently in one direction and in the direction orthogonal to the first direction and essentially joining the **webs** in one direction, (c) stretching the **webs** at a stretch within the elasticity limit of A **web** and smaller than the breaking extension of B **web**, and (e) keeping the **composite** to cause contraction of the **composite**. The **composite sheets** are useful for disposable diapers, sanitary napkins, and disposable medical gowns.

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